## CLAIM LISTING

1.    (Original)    A method for maintaining SIP contact addresses:

sending, by a SIP proxy user agent (UA), a first registration message for a remote unit to a SIP registrar;

sending a second registration message for the remote unit to the SIP registrar;

receiving, in response to the second registration message, a response that indicates a contact address more recent than any provided by the SIP proxy UA; and

sending, in response to the received response, a deregistration message for the remote unit to the SIP registrar.

2.    (Original)    The method of claim 1 further comprising receiving, by the SIP proxy UA, a non-SIP registration request from the remote unit prior to sending the first registration message.

3.    (Original)    The method of claim 1 wherein the second registration message is sent in response to a registration timer expiration.

4.    (Original)    The method of claim 1 wherein the first registration message comprises a SIP REGISTER message.

5.    (Original)    The method of claim 4 wherein the SIP REGISTER message indicates that it comprises a new contact address.

6.    (Original)    The method of claim 1 wherein the second registration message comprises a SIP REGISTER message.

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7.      (Original)     The method of claim 1 wherein the response that indicates a contact address more recent than any provided by the SIP proxy UA comprises a SIP 200 OK message and at least one creation time stamp.

8.      (Original)     The method of claim 7 wherein the response further comprises a group of contact addresses and a creation time stamp for each.

9.      (Original)     The method of claim 1 wherein the deregistration message comprises a SIP REGISTER message with an Expires header value of "0".

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10.    (Original)    A method for maintaining SIP contact addresses:

receiving a first registration message for a remote unit from a first SIP proxy user agent (UA);

storing, as a member of a group of contact addresses for the remote unit, both a first contact address based on the first registration message and a first creation timestamp for the first contact address;

receiving a second registration message for the remote unit from a second SIP proxy UA after receiving the first registration message;

storing, as a member of the group of contact addresses for the remote unit, both a second contact address for the remote unit and a second creation timestamp for the second contact address;

receiving a third registration message for the remote unit from the first SIP proxy UA;

sending, in response to the third registration message, a response that indicates a contact address more recent than any provided by the first SIP proxy UA;

receiving a deregistration message for the remote unit from the first SIP proxy UA; and

removing, from the group of contact addresses for the remote unit, the first contact address.


11.    (Original)    The method of claim 10 wherein the response that indicates a contact address more recent than any provided by the first SIP proxy UA comprises a SIP 200 OK message and at least one creation time stamp.


12.    (Original)    The method of claim 11 wherein the response further comprises a group of contact addresses and a creation time stamp for each.

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13.    (Original)    The method of claim 10 wherein the first registration message comprises a SIP REGISTER message, the second registration message comprises a SIP REGISTER message, and the third registration message comprises a SIP REGISTER message.

14.    (Original)    The method of claim 10 wherein the deregistration message comprises a SIP REGISTER message with an Expires header value of "0".

15.    (Original)    A radio access network (RAN) component comprising:

a wireless network interface; and

a SIP proxy user agent, communicatively coupled to the wireless network interface, adapted to

receive a registration request from a remote unit via the wireless network interface,

send a first registration message for the remote unit to a SIP registrar,

send a second registration message for the remote unit to the SIP registrar,

receive, in response to the second registration message, a response that indicates a contact address more recent than any provided by the SIP proxy UA, and

send, in response to the received response, a deregistration message for the remote unit to the SIP registrar.

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16.    (Original)    A SIP registrar comprising:

a SIP location data base; and

a SIP location processor, communicatively coupled to the SIP registration data base, adapted to

receive a first registration message for a remote unit from a first SIP proxy user agent (UA),

store in the SIP location data base, as a member of a group of contact addresses for the remote unit, both a first contact address based on the first registration message and a first creation timestamp for the first contact address,

receiving a second registration message for the remote unit from a second SIP proxy UA after receiving the first registration message,

storing in the SIP location data base, as a member of the group of contact addresses for the remote unit, both a second contact address for the remote unit and a second creation timestamp for the second contact address,

receiving a third registration message for the remote unit from the first SIP proxy UA,

sending, in response to the third registration message, a response that indicates a contact address more recent than any provided by the first SIP proxy UA,

receiving a deregistration message for the remote unit from the first SIP proxy UA, and

removing, from the group of contact addresses for the remote unit, the first contact address.

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